

Title (en)

Method of lithographic printing with a reusable substrate

Title (de)

Flachdruckverfahren mit einer wiederverwendbaren Trägeroberfläche

Title (fr)

Méthode pour l'impression lithographique utilisant un support à surface réutilisable

Publication

EP 1118471 B1 20041222 (EN)

Application

EP 00200177 A 20000118

Priority

EP 00200177 A 20000118

Abstract (en)

[origin: EP1118471A1] A direct-to-plate method of lithographic printing is disclosed which enables to recycle the lithographic substrate of the printing master. The method comprises the steps of (a) making a negative-working imaging material by coating on a hydrophilic substrate a coating solution comprising hydrophobic thermoplastic polymer particles and a hydrophilic binder; (b) making a printing master having ink-accepting areas by imagewise exposing the imaging material; (c) applying ink and fountain solution to the printing master; (d) removing the ink-accepting areas from the printing master by supplying a aliphatic or aromatic compound having a structure comprising at least 6 carbon atoms. The above steps are preferably carried out on-press.

IPC 1-7

B41N 3/00; **B41C 1/10**; **B41M 5/36**

IPC 8 full level

G03F 7/004 (2006.01); **B41C 1/10** (2006.01); **B41M 5/36** (2006.01); **B41N 1/14** (2006.01); **B41N 3/00** (2006.01); **B41N 3/06** (2006.01); **C11D 3/18** (2006.01); **C11D 3/20** (2006.01); **C11D 7/50** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01); **G03F 7/00** (2006.01); **G03F 7/42** (2006.01); **C11D 7/24** (2006.01); **C11D 7/26** (2006.01)

CPC (source: EP)

B41C 1/1025 (2013.01); **B41N 3/06** (2013.01); **C11D 3/18** (2013.01); **C11D 3/2003** (2013.01); **C11D 3/2068** (2013.01); **C11D 7/5022** (2013.01); **C11D 17/0021** (2013.01); **G03F 7/422** (2013.01); **G03F 7/423** (2013.01); **B41C 2210/04** (2013.01); **B41C 2210/08** (2013.01); **B41C 2210/22** (2013.01); **B41C 2210/24** (2013.01); **B41N 3/00** (2013.01); **B41N 3/006** (2013.01); **C11D 7/24** (2013.01); **C11D 7/263** (2013.01); **C11D 2111/20** (2024.01)

Cited by

EP2886342A1; EP1962327A4; US9878531B2; US10022965B2; US9701120B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1118471 A1 20010725; **EP 1118471 B1 20041222**; DE 60016885 D1 20050127; DE 60016885 T2 20051215; JP 2001232963 A 20010828

DOCDB simple family (application)

EP 00200177 A 20000118; DE 60016885 T 20000118; JP 2001006227 A 20010115